

20080727.ba v04_n192.bam.20080727

>From ???@??? Sun Jul 27 16:13:38 2008 -0500
Date: Sun, 27 Jul 2008 16:11:39 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4192
Message-Id: <20080727220718.8A04910B114@srvr1.theporch.com>

BOATANCHORS Digest 4192

Topics covered in this issue include:

- 1) Re: Suggestions for best CW rig?
by Mike Steussy <ae4r@cox.net>
- 2) Re: Suggestions for best CW rig?
by john <johnmb@nc.rr.com>
- 3) Re: Suggestions for best CW rig?
by "Art Lebermann" <artleb@earthlink.net>
- 4) Re: Suggestions for best CW rig?
by "Sandy" <ebjr37@charter.net>
- 5) Re: Suggestions for best CW rig?
by BobR <brainbol@sunflower.com>
- 6) Re: Suggestions for best CW rig?
by "Ed Zeranski" <ezeran@ezeran.cnc.net>
- 7) Re: best CW rig?
by Ralph Parker <rparker@dccnet.com>
- 8) Re: Suggestions for best CW rig?
by Mike Steussy <ae4r@cox.net>
- 9) Re: Suggestions for best CW rig?
by "David Thompson" <thompson@mindspring.com>
- 10) Re: best CW rig?
by "David Thompson" <thompson@mindspring.com>
- 11) Re: Suggestions for best CW rig?
by "Sandy" <ebjr37@charter.net>
- 12) Re: Suggestions for best CW rig?
by Garey Barrell <k4oah@mindspring.com>
- 13) CW rig of choice
by wb3fau@att.net
- 14) 5U4's
by John Sehring <wb0eq@yahoo.com>
- 15) Re: Suggestions for best CW rig?
by K8MF0@aol.com
- 16) Re: 5U4's
by wb3fau@att.net
- 17) RE: 5U4's
by "Dr. James C. Garland" <4cx250b@muohio.edu>
- 18) Re: Suggestions for best CW rig?

- by w8au@sssnet.com
- 19) Re: Suggestions for best CW rig?
by "ChasW3KC" <w3kc@verizon.net>
 - 20) Re: Suggestions for best CW rig?
by stuck in 50s <polepeeg@aa4rm.ba-watch.org>
 - 21) Re: Suggestions for best CW rig?
by Garey Barrell <k4oah@mindspring.com>
 - 22) Re: 5U4's
by "Arden Allen" <gumbear@pacbell.net>
 - 23) RE: 5U4's
by "Bill Hawkins" <bill@iaxs.net>

Message-ID: <488BB853.2000505@cox.net>
Date: Sat, 26 Jul 2008 19:50:43 -0400
From: Mike Steussy <ae4r@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Boatanchors <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Art and all... Here's my vote: Johnson Viking Ranger I (with keyer tube) or II. Replace the audio gain pot with one of same value and a switch on the back. Use the switch to turn off the filament voltage to the audio tubes, except when and if you ever want to operate AM. I replaced all the rectifiers in my R1 with solid state diodes to save even more power, though some on this list prefer to use stock vacuum rectifiers. I also park a little muffin fan with rubber feet on top to pull heat out of the box. Result is a very cool Ranger that always draws compliments from my CW contacts.

73, Mike Steussy AE4R

> I'm interested in suggestions for the best medium to low power "CW only"
> transmitter. I'm sure that there will be many opinions, but your comments
> will be very much appreciated.

Message-Id: <6.2.1.2.2.20080726203913.03e6e9b0@pop-server.nc.rr.com>
Date: Sat, 26 Jul 2008 20:42:29 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@nc.rr.com>
Subject: Re: Suggestions for best CW rig?
Cc: Boatanchors <boatanchors@theporch.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

This is a fun discussion. It's urban renewal time in the shack , and I've just put on line the Drake 2C line (2CQ, 2C, 2NT) and a HA5 Hallicrafters VFO. Pretty nice little setup, keying is well integrated, and apart from kind of a cabling nightmare, it works well.

The idea with the filament switch in the audio gain pot is a good one. Those modulator tubes cook right along and really put out some heat as they're idling . Rangers do tend to run hot, but they're great little rigs. Is the VFO stable enough for CW after a nominal (15-20min) warmup? For AM, of course it's no problem.

John K5MO

At 07:50 PM 7/26/2008, Mike Steussy wrote:

>Art and all... Here's my vote: Johnson Viking Ranger I (with keyer tube)
>or II. Replace the audio gain pot with one of same value and a switch on
>the back. Use the switch to turn off the filament voltage to the audio
>tubes, except when and if you ever want to operate AM. I replaced all the
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>73, Mike Steussy AE4R

>

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>>transmitter. I'm sure that there will be many opinions, but your comments
>>will be very much appreciated.

>

>

Message-ID: <380-2200870271416921@earthlink.net>

From: "Art Lebermann" <artleb@earthlink.net>

To: Old Tube Radios <boatanchors@theporch.com>

Cc: "Boatanchors" <boatanchors@theporch.com>

Subject: Re: Suggestions for best CW rig?

Date: Sat, 26 Jul 2008 18:04:16 -0700

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Mike - and the Boatanchor gang.....

Thanks for suggestions! From the replies I've received, it's looking like the Viking Ranger may be my choice. More suggestions - and comments on the Ranger - will be much appreciated.

73,
ART
W6REQ

> [Original Message]
> From: Mike Steussy <ae4r@cox.net>
> To: Art Lebermann <artleb@earthlink.net>
> Cc: Boatanchors <boatanchors@theporch.com>
> Date: 7/26/2008 4:50:44 PM
> Subject: Re: Suggestions for best CW rig?
>
> Art and all... Here's my vote: Johnson Viking Ranger I (with keyer tube)
> or II. Replace the audio gain pot with one of same value and a switch
> on the back. Use the switch to turn off the filament voltage to the
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> > transmitter. I'm sure that there will be many opinions, but your
comments
> > will be very much appreciated.
>
>
>
>

Message-ID: <005901c8ef8a\$27f65700\$7d4abe44@gateway>
From: "Sandy" <ebjr37@charter.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Date: Sat, 26 Jul 2008 20:43:22 -0500
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";

reply-type=original
Content-Transfer-Encoding: 7bit

My first pick would have to be the Drake 2NT. It has a sidetone generator, full break-in antenna switching, a control to regulate the power output from about 15-70 watts. It works only 80/40/20/15/10 meters bands though.

73,

Sandy W5TVW

----- Original Message -----

From: "Art Lebermann" <artleb@earthlink.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Thursday, July 24, 2008 1:33 AM
Subject: Suggestions for best CW rig?

>
> I'm interested in suggestions for the best medium to low power "CW only"
> transmitter. I'm sure that there will be many opinions, but your comments
> will be very much appreciated.
>
> 73,
> Art Lebermann
> W6REQ
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - <http://www.avg.com>
> Version: 8.0.138 / Virus Database: 270.5.5/1569 - Release Date: 7/23/2008
> 1:31 PM
>
>
>

Message-Id: <6.1.2.0.2.20080726222347.036dbec0@brainbol.pop.sunflower.com>
Date: Sat, 26 Jul 2008 22:31:18 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: BobR <brainbol@sunflower.com>
Subject: Re: Suggestions for best CW rig?
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"; format=flowed
Content-Transfer-Encoding: quoted-printable

Art-

I'm with John/K5MO and Sandy/W5TVW for pick of the Drake 2NT. Halli HA-5 VFO works flawlessly with the little TX. It would be much easier to= interface to a RX, especially a Drake 2- or 4-line, with the 2NT's adjustable sidetone and VOX built-in. I never really cared to run my Ranger II on CW. It's= great for AM but you need a keyer circuit, etc. with it. The 2NT is plug and= play. One gotcha tho, the HA-5 can cost more than the 2NT....

73, Bob/WB=D8AUQ

>----- Original Message ----- From: "Art Lebermann" <artleb@earthlink.net>
>To: "Old Tube Radios" <boatanchors@theporch.com>
>Sent: Thursday, July 24, 2008 1:33 AM
>Subject: Suggestions for best CW rig?
>
>
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>>Version: 8.0.138 / Virus Database: 270.5.5/1569 - Release Date: 7/23/2008
>>1:31 PM
>>
>>

Message-ID: <002901c8efa1\$523187d0\$7701a8c0@KONI>
From: "Ed Zeranski" <ezeran@ezeran.cnc.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Date: Sat, 26 Jul 2008 21:29:06 -0700

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey!!! I thought you only used TCS or older rigs. 8^)

Subject: Re: Suggestions for best CW rig?
My first pick would have to be the Drake 2NT. > 73,
Sandy W5TVW

EdZ KG6UTS
LM14uo

Message-Id: <3.0.6.32.20080726214704.00b43348@pop3.dccnet.com>
Date: Sat, 26 Jul 2008 21:47:04 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Ralph Parker <rparker@dccnet.com>
Subject: Re: best CW rig?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>...suggestions for the best medium to low power "CW only" transmitter.

>From my collection of Viking Navigator, Globe Chief, Eico 720 and maybe an
ARC-5 or two, I'd have to say the Navigator. A classic look, and too cute
for words, but only 25 watts out on a good day. (The above not counting my
first xmtr, a single 6AG7 on 80m.)
Probably the '720 would be in second place.
Someday I'm gonna build the xtal-controlled single 813 :-)

VE7XF

Message-ID: <488BFE90.2000402@cox.net>
Date: Sun, 27 Jul 2008 00:50:24 -0400
From: Mike Steussy <ae4r@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>, artleb@earthlink.net
Subject: Re: Suggestions for best CW rig?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

John and all... The Drake 2-NT would be my second selection for Art's
small CW transmitter. It's a nice CW rig and great fun to use. All it
needs is a VFO. Mine is driven by a Knight V-44 that may not be the

best choice, but they look nice together. Same shade of gray!
> This is a fun discussion. It's urban renewal time in the shack , and
> I've just put on line the Drake 2C line (2CQ, 2C, 2NT) and a HA5
> Hallicrafters VFO. Pretty nice little setup, keying is well
> integrated, and apart from kind of a cabling nightmare, it works well.
I always try to warm up the Ranger and my other BA rigs at least half an
hour, but really, what the heck! These are boatanchors! Not to worry!
Most other operators have rigs with RIT and can easily follow us up and
down the band.
> The idea with the filament switch in the audio gain pot is a good one.
> Those modulator tubes cook right along and really put out some heat as
> they're idling . Rangers do tend to run hot, but they're great little
> rigs. Is the VFO stable enough for CW after a nominal (15-20min)
> warmup? For AM, of course it's no problem.
My third choice for Art's small transmitter hunt would be the Eico 720,
a very robust rig and fairly common. I use it with the totally
dissimilar 722 VFO and get good signal reports. And yes, the 722
drifts, too.

73 and have fun! Mike AE4R

Message-ID: <013801c8efa7\$dc15eb20\$e6649a04@yourxb2x7j77gn>
From: "David Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Date: Sun, 27 Jul 2008 01:15:51 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just put out a blurb on the hallicrafters reflector from an old CW man.
He likes the HT-30 exciter.
True it is much more scarce than a Drake NT but
it uses a heterodyne VFO like the later HA-5.

The secret as he and hallicrafters tell it is the use of two oscillators
that operate far outside the ham bands. Both are on all the time thus you
wind up with excellent frequency stability and its great for full break in
which long time CW ops will tell you is a staple of the CW man (or woman).
The plus is that since there is no starting and stopping of oscillators
there is no chirp. Plus hallicrafters issued a paper on how to the keying
characteristics can be shaped.

Plus, plus you have an outstanding SSB rig.

By the way, the ole CW man has two other Cw rigs...the Viking navigator and

a Collins 310B3 modified for pi-net. Gee I sold a 310B3 to N4X0
12 years ago for \$200.

73 Dave K4JRB

Message-ID: <013e01c8efa9\$08022950\$e6649a04@yourxb2x7j77gn>
From: "David Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: best CW rig?
Date: Sun, 27 Jul 2008 01:24:21 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This discussion got me dig into my rack for a 1946 Micamold 6AG7/6L6 (mine has the 6L6GT). Guess I will have to get another crystal as my 3710 is in the middle of the SSB band now and my 7122 is still a CW frequency but few Novices around anymore.

The blue chassis still looks good. Runs cool at 30 watts input and a heaping 17 watts out. Those crystals are kcs no hertz here.

73 Dave K4JRB

Message-ID: <001601c8eff6\$e5204630\$7d4abe44@gateway>
From: "Sandy" <ebjr37@charter.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Date: Sun, 27 Jul 2008 09:41:44 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="iso-8859-1";
 reply-type=original
Content-Transfer-Encoding: 7bit

NaaaaaH! ALL the vacuum tube rigs are "old" now! Now if the TCS would work 20 and 17 meters THAT would be GREAT! Since the frequency coverage is limited, I'd say it was my close seconds choice for a CW transmitter!

I'd say it was the "most fun" CW transmitter though!

73,

Sandy W5TVW

----- Original Message -----

From: "Ed Zeranski" <ezeran@ezeran.cnc.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Saturday, July 26, 2008 11:29 PM
Subject: Re: Suggestions for best CW rig?

> Hey!!! I thought you only used TCS or older rigs. 8^)
>
> Subject: Re: Suggestions for best CW rig?
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> No virus found in this incoming message.
> Checked by AVG - <http://www.avg.com>
> Version: 8.0.138 / Virus Database: 270.5.6/1575 - Release Date: 7/26/2008
> 4:18 PM
>
>

Message-ID: <488C8E38.8040707@mindspring.com>
Date: Sun, 27 Jul 2008 11:03:20 -0400
From: Garey Barrell <k4oah@mindspring.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 8bit

The 2-NT is certainly a nice little transmitter, but if you have priced those lately, you can buy a T-4X and power supply for about the same money. AND it has it's own PTO already in it? Of course it has excellent keying, sidetone and interface just like the 2-NT. ?? And if you don't want the SSB part, just don't turn the switch that way.

73, Garey - K40AH
Glen Allen, VA

Drake 2-B, 4-B, C-Line & TR-4/C Service Supplement CDs
<www.k4oah.com>

BobR wrote:

> Art-

>

> I'm with John/K5MO and Sandy/W5TVW for pick of the Drake 2NT. Halli HA-5

> VFO works flawlessly with the little TX. It would be much easier to

> interface

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> It's great

> for AM but you need a keyer circuit, etc. with it. The 2NT is plug

> and play.

> One gotcha tho, the HA-5 can cost more than the 2NT....

>

> 73, Bob/WB3FAUQ

>

>

>

>> ----- Original Message ----- From: "Art Lebermann"

>> <artleb@earthlink.net>

>> To: "Old Tube Radios" <boatanchors@theporch.com>

>> Sent: Thursday, July 24, 2008 1:33 AM

>> Subject: Suggestions for best CW rig?

>>

>>

>>>

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>>> only"

>>> transmitter. I'm sure that there will be many opinions, but your

>>> comments

>>> will be very much appreciated.

>>>

>>> 73,

>>> Art Lebermann

>>> W6REQ

>>>

From: wb3fau@att.net

To: Old Tube Radios <boatanchors@theporch.com>

Subject: CW rig of choice

Date: Sun, 27 Jul 2008 16:00:17 +0000

Message-Id:

<072720081600.24312.488C9B910004C46A00005EF822216125569B0A02D29B9B0EBF9A0E00CC0D99@att.net>

Well i think the choice is a matter of nostalgia, our own experiences. My choice is the Johnson Adventurer, did my 1st DX on that rig on 15meters! How much will this put out on 15? I worked G land England from 3 land. I had a Ten-tec VFO, and RX was a Drake R4C. Got my gen ticket in 77 and rewarded myself with the companion T4XC. I am sure the 2NT is a cool transmitter. I have a 2C, if anyone is looking for a companion to the 2NT. Russ.

Date: Sun, 27 Jul 2008 09:13:38 -0700 (PDT)
From: John Sehring <wb0eq@yahoo.com>
Subject: 5U4's
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Message-ID: <336769.31687.qm@web45608.mail.sp1.yahoo.com>

All the yucking about "quad 5U4's" audiotomphoolery reminds me that there are some important & real considerations about power supplies. Namely, that the power supply for a particular amplifier stage (tube and ss) is effectively in *series* with the signal!

This was brought home to me forcefully many years ago when I was working with computer software simulations of electronic circuits. The power supply needs to be placed in series with the output plate (or collector or wherever); hence the signal sees ("reflects") the output impedance ("signal" of the PS, if you will) of the power supply as well as that of the amplifier stage.

For example, visualize a tube driving an output transformer; the signal flow could be viewed as coming up from ground to the tube's cathode, thru the tube, up to the plate, down the transformer primary winding, thru the power supply, to ground again (or you could reverse this flow in your mind). The output signal's in that loop, which includes the PS.

Yes, the PS Z can be measured. Ideally, a PS would show zero internal Z from DC to beyond the upper freq. limit of the amp. This would of course be a perfect voltage source, displaying no variation of its output voltage up to the peak current requirement of the amplifier it was supplying.

A carefully designed 3-terminal ss voltage regulator (e.g. LM317) can have as little as about $10E-3$ ohms Z up to around 8 kHz and $10E-1$ ohms to 100 kHz. By contrast, a Zener used as a regulator could have around 25 ohms at audio frequencies. Offhand, I have no Z numbers in my head for a traditional boatanchor B+ supply.

So, however much we chuckle over the "sound" of 5U4's, it is there; it's more than

residual AC hum; it may or may not be audible to good ears, or to measurements.

--John WB0EQ

From: K8MFO@aol.com
Message-ID: <be8.3400b4cd.35bdf906@aol.com>
Date: Sun, 27 Jul 2008 12:15:02 EDT
Subject: Re: Suggestions for best CW rig?
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I have to weigh in with Garey on this. At present I have a Ranger II, with Drake 2B and Collins 75A4, all working well in my workshop station! But there is something that I long for, and that is the WARC bands! So I recently bought a Drake C Line. Once it is in shape, it will sit right beside the classic rigs for full coverage of the bands.

73

Don - K8MFO

In a message dated 7/27/2008 11:05:21 A.M. Eastern Daylight Time, k4oah@mindspring.com writes:
The 2-NT is certainly a nice little transmitter, but if you have priced those lately, you can buy a T-4X and power supply for about the same money. AND it has it's own PTO already in it? Of course it has excellent keying, sidetone and interface just like the 2-NT. ?? And if you don't want the SSB part, just don't turn the switch that way.

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Glen Allen, VA

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<www.k4oah.com>

*****Get fantasy football with free live scoring. Sign up for

FanHouse Fantasy Football today.
(<http://www.fanhouse.com/fantasyaffair?ncid=aolspr000500000000020>)

From: wb3fau@att.net
To: Old Tube Radios <boatanchors@theporch.com>
Cc: John Sehring <wb0eq@yahoo.com>
Subject: Re: 5U4's
Date: Sun, 27 Jul 2008 16:29:48 +0000
Message-Id:
<072720081629.22676.488CA27C000304BE0000589422216125569B0A02D29B9B0EBF9A0E00CC0D99@att.net>

There you go John, you proved it! My Adventurer uses a 5U4 in the power supply! Must be the better radio...Russ.

From: "Dr. James C. Garland" <4cx250b@muohio.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: 5U4's
Date: Sun, 27 Jul 2008 10:32:46 -0600
Message-ID: <025a01c8f006\$67a49b10\$bd00a8c0@Garland>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

John makes some good points about the output Z of zener diodes, IC regulators, etc., being frequency-dependent, but I doubt that in practice this is much of an issue in audio frequency power amplifiers. That's why big filter capacitors are used to clamp the power supply voltage at AC ground. That essentially makes the output Z of the power supply zero (or close to it) at AF frequencies, so that the regulator's job is simply to stabilize the DC voltage.

At RF frequencies, such considerations are completely irrelevant, since the RF current path in an RF amplifier doesn't go through the power supply.

73,

Jim W8ZR

>
> So, however much we chuckle over the "sound" of 5U4's, it is there; it's
> more than residual AC hum; it may or may not be audible to good ears, or
> to measurements.

>
> --John WB0EQ

Date: Sun, 27 Jul 2008 13:18:30 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: w8au@sssnet.com
Subject: Re: Suggestions for best CW rig?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
Message-Id: <20080727171417.1955110B102@srvr1.theporch.com>

At 12:15 PM 7/27/2008, K8MF0@aol.com wrote:
>At present I have a Ranger II,
>with Drake 2B and Collins 75A4, all working well in my workshop
>station! But
>there is something that I long for, and that is the WARC bands!

Hey, Don:

This is where the MIL BA's come in... no conversion for WARC bands up thru 17M.
Navy TCS covers 30M, and a lot of the other "T" series cover 17M.
Some SigCorps sets go even higher.

Now these are real "meat'n'potatoes" rigs... (some come close to being bigger
than you are!) :-)

Perry w8au

Date: Sun, 27 Jul 2008 15:15:37 -0400
From: "ChasW3KC" <w3kc@verizon.net>
Subject: Re: Suggestions for best CW rig?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <000e01c8f01d\$27577520\$2f01a8c0@chas>
MIME-version: 1.0
Content-type: text/plain; format=flowed; charset=iso-8859-1; reply-type=response
Content-transfer-encoding: 7bit

> But there is something that I long for, and that is the
> WARC bands!

The venerable Viking II will cover 'em (with suitable vfo or
xtal's).

73 Chas W3KC

Date: Sun, 27 Jul 2008 15:21:25 -0400 (EDT)
From: stuck in 50s <polepeeg@aaa4rm.ba-watch.org>
Message-Id: <200807271921.m6RJLPEH006672@fracas.netboobie.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?

I'm weighing in with the Navigator. Mine runs full QSK with a no-name 6AH6 TR switch lit by an ameco converter p-s. RX is a 2B.

Now on the TCS. It's full break-in w/o sidetone but with a big dose of relay chatter. And while on the TCS, at least two shots of them in 2004 History Channel special on PT Boats

Did anyone ever connect that vessel with P T Barnum?

Marty

Message-ID: <488CCCF.5060708@mindspring.com>
Date: Sun, 27 Jul 2008 15:31:11 -0400
From: Garey Barrell <k4oah@mindspring.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Suggestions for best CW rig?
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Hi Marty -

Yeah, but for the price of a Navigator you can buy a complete Drake B Line!

73, Garey - K40AH
Glen Allen, VA

stuck in 50s wrote:

> I'm weighing in with the Navigator. Mine runs full QSK with a no-name
> 6AH6 TR switch lit by an ameco converter p-s. RX is a 2B.
>
> Now on the TCS. It's full break-in w/o sidetone but with a big dose
> of relay chatter. And while on the TCS, at least two shots of them
> in 2004 History Channel special on PT Boats
>
> Did anyone ever connect that vessel with P T Barnum?
>
> Marty
>

Message-ID: <002501c8f031\$f9fd9b30\$5a9e480c@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 5U4's
Date: Sun, 27 Jul 2008 14:44:31 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> All the yucking about "quad 5U4's".....

John, you have your thinking cap on, and that's good. However, as Jim points out, the filter capacitor has a low reactance at audio frequencies and hence the ratio of the power supply impedance to the loaded amplifier impedance is quite large. Let's say, a wild ass guess of 10,000:1. Another way to look at it is to determine the power loss **change** in the amplifier with respect to the power loss **change** in the power supply at the point of **instantaneous** change in load. For example, the amplifier is delivering X watts to an 8 ohm load. At the instant another 8 ohm resistor is connected in parallel to produce a 4 ohm load the power loss in both the amplifier and power supply is forced to change. What are each of those changes? You will need to make the measurement using oscillographic technique because the **difference** in AC impedance and DC impedance of the power supply is comparatively large under static conditions. That's cuz the capacitor has no effect under static conditions, its reactance is infinite with respect to affecting the power supply's static output voltage.

But of course let's not overlook the fact that power supply filter capacitor's reactance increases as audio frequency decreases. There's where the problem comes in where power supply filters are only designed to reduce 120 cycle ripple to a negligible, but not zero level. With today's audiophoolery needing to shake the timbers loose in one's house, or bust the welds in their low rider, such antiquated power supply designs have a considerably large impedance at subsonic frequencies. Thus the giant filter capacitors in such audio atrocities.

Jim probably regrets saying, "At RF frequencies, such considerations are completely irrelevant, since the RF current path in an RF amplilfier doesn't go through the power supply." Sorry Jim, it doesn't matter how the power gets to the load, it still has to come from a power supply of some finite impedance. You can easily see the envelope distortion CW transmitters suffer from due to power supply impedance.

Arden Allen

KB6NAX

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: 5U4's
Date: Sun, 27 Jul 2008 17:10:56 -0500
Message-ID: <000001c8f035\$a4fa2910\$021ba8c0@cyrus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Well, if you regulate the supply with, say, quad 807s then the impedance can be quite low at DC. The output filter caps then hold the impedance down as the load frequency goes up. The input caps don't filter so much as they hold up the DC while the rectifier is not conducting. A choke input also holds the DC up by increasing the time the rectifier conducts.

Do the audio nuts understand these principles? Regulation would be like building your sound stage on bedrock. Uh, maybe I shouldn't have said that.

There go the 807s.

Bill Hawkins

End of BOATANCHORS Digest 4192
